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Certificate No.: TC-5548

QC ABSTRACT

NAME OF WORK: "Improvements to Roads Drains and Other Developmental Works in Ananthapura Attur Ward No 03 Under SWM Head in Chief Minister Nava Nagarothan Grants of Yelahanka Division Package 08"

SL NO	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
		Materials				
1	Cement	Fineness by dry sieving	One Test		1	1
		Finess by Air permeablity method	One Test		1	1
		Density	One Test		1	1
		Standard Consistency	One Test		1	1
		Initial Setting time	One Test		1	1
		Final Setting time	One Test		1	1
		Soundness (Le Chatelier's Method)	One Test		1	1
		Compressive Strength	One Test		1	1
2	Coarse aggregate(40 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
3	Coarse aggregate(20 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
		Aggregate crushing Value	One Test		1	1
		Aggregate Impact Value	One Test		1	1
4	Fine aggregate	SIEVE ANALYSIS	One Test		1	1
		Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
5	Steel	Bend test	One Test		1	1
		Tensile Test	One Test		1	1
		Yield Test	One Test		1	1
		ReBend test	One Test		1	1
6	KERB	Core Compressive strength	One Test		1	1
		Corrected Cylinder Compressive strength	One Test		1	1
		Equivalent Cube Compressive strength	One Test		1	1
7	Precast (100mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1

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ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-106

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2020-10-12-50** **Date: 15-05-20**
Project Name	:	"Improvements to Roads Drains and Other Developmental Works in Ananthapura Attur Ward No 03 Under SWM Head in Chief Minister Nava Nagarothan Grants of Yelahanka Division Package 08" **Improvements to roads and drains at Ananthapura village limits**
Agency	:	Sri A Channareddy, M/s ACR Projects, Engineers & Contractors, No.01, Byarappa Circle, Jambusavaridinne, J.P. Nagara, 8th Phase, Bangalore-83
Customer's Reference	:	BBMP/EE/Ynk-D/W O/01/2020-21
Date of Receipt	:	12-05-20
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	13-05-20
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

SLNo.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.05	_
2	Finess by Air permeablity method (m^2/kg,Min)	298.6	225m^2/kg, Min
3	Density (gm/cc)	3.13	_
4	Standard Consistency (%)	28.5%	Not specified
5	Initial Setting time	135 minutes	Not less than 30 minutes
6	Final Setting time	255 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

* The results obtained are satisfactory as per standard requirements.

CIVIL Pro Sig Date BANGALORE

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2020-10-12-50** **Date: 14-05-20**
Project Name	:	"Improvements to Roads Drains and Other Developmental Works in Ananthapura Attur Ward No 03 Under SWM Head in Chief Minister Nava Nagarothan Grants of Yelahanka Division Package 08" **Improvements to roads and drains at Ananthapura village limits**
Agency	:	Sri A Channareddy, M/s ACR Projects, Engineers & Contractors, No.01, Byarappa Circle, Jambusavaridinne, J.P. Nagara, 8th Phase, Bangalore-83.
Customer Reference	:	BBMP/EE/Ynk-D/W.O/01/2020-21
Date of Receipt	:	12-05-20
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	12-05-20

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	318	318	6.4	93.6	90-100
3	10 mm	2852	3170	63.4	36.6	25-55
4	4.75 mm	1622	4792	95.8	4.2	0-10
5	Pan	208	5000	100	0	-

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TEST REPORT OF FINE AGGREGATE

Lab ID : CP-2020-10-12-50

Date: 14-05-20

Project Name : "Improvements to Roads Drains and Other Developmental Works in Ananthapura Attur Ward No 03 Under SWM Head in Chief Minister Nava Nagarothan Grants of Yelahanka Division Package 08"

Improvements to roads and drains at Ananthapura village limits

Agency : Sri A Channareddy, M/s ACR Projects, Engineers & Contractors, No.01, Byarappa Circle, Jambusavaridinne, J.P. Nagara, 8th Phase, Bangalore-83.

Customer's Reference : BBMP/EE/Ynk-D/W.O/01/2020-21

Date of Receipt : 12-05-20

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 12-05-20

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	57	57	5.7	94.3	90-100	90-100	90-100	95-100
3	2.36 mm	129	186	18.6	81.4	60-95	75-100	85-100	95-100
4	1.18 mm	219	405	40.5	59.5	30-70	55-90	75-100	90-100
5	600 micron	203	608	60.8	39.2	15-34	35-59	60-79	80-100
6	300 micron	179	787	78.7	21.3	5-20	8-30	12-40	15-50
7	150 micron	149	936	93.6	6.4	0-10	0-10	0-10	0-15
8	Pan	64	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF PRECAST COVER SLAB

Lab ID : **CP-2020-10-12-50** **Date: 29-08-20**

Project Name : "Improvements to Roads Drains and Other Developmental Works in Ananthapura Attur Ward No 03 Under SWM Head in Chief Minister Nava Nagarothan Grants of Yelahanka Division Package 08"

Improvements to roads and drains at Ananthapura village limits

Agency : Sri A Channareddy, M/s ACR Projects, Engineers & Contractors, No.01, Byarappa Circle, Jambusavaridinne, J.P. Nagara, 8th Phase, Bangalore-83.

Customer's Reference : BBMP/EE/Ynk-D/W.O/01/2020-21

Date of Receipt : 25-08-20

Sample Type /Size : Precast Cover Slab (100mm)

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete

Date of test : 25/08/2020

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	75.51	100.48	1.116	4477	80.9	18.1	16.8	21.0
2	Cover Slab-2	75.49	100.52	1.122	4475	82.3	18.4	17.1	21.4
3	Cover Slab-3	75.50	100.51	1.118	4476	81.5	18.2	16.9	21.2

* The results obtained are satisfactory as per standard requirements.

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Authorized Signatory
Quality Manager

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TEST REPORT OF PRECAST COVER SLAB

Lab ID : CP-2020-10-12-50

Date: 29-08-20

Project Name : "Improvements to Roads Drains and Other Developmental Works in Ananthapura Attur Ward No 03 Under SWM Head in Chief Minister Nava Nagarothan Grants of Yelahanka Division Package 08"

Improvements to roads and drains at Ananthapura village limits

Agency : Sri A Channareddy, M/s ACR Projects, Engineers & Contractors, No.01, Byarappa Circle, Jambusavaridinne, J.P. Nagara, 8th Phase, Bangalore-83.

Customer's Reference : BBMP/EE/Ynk-D/W.O/01/2020-21

Date of Receipt : 25-08-20

Sample Type /Size : Precast Cover Slab (250mm)

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete

Date of test : 25/08/2020

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	200.51	250.48	3.116	31570	230.9	7.3	6.8	8.5
2	Cover Slab-2	200.49	250.52	3.122	31564	232.3	7.4	6.8	8.6
3	Cover Slab-3	200.50	250.51	3.118	31567	231.5	7.3	6.8	8.5

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2020-10-12-50

Date: 08/09/2020

Project Name : "Improvements to Roads Drains and Other Developmental Works in Ananthapura Attur Ward No 03 Under SWM Head in Chief Minister Nava Nagarothan Grants of Yelahanka Division Package 08"

Improvements to roads and drains at Ananthapura village limits

Agency : Sri A Channareddy, M/s ACR Projects, Engineers & Contractors, No.01, Byarappa Circle, Jambusavaridinne, J.P. Nagara, 8th Phase, Bangalore-83.

Customer's Reference : BBMP/EE/Ynk-D/W.O/01/2020-21

Date of Receipt : 03-09-20

Customer ID : PCC For Kerb

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 08/09/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC For Kerb	M15	01/09/2020	08/09/2020	151.08 X 149.86 X 150.91	22641	8.417	284.8	12.6	12.7
2	PCC For Kerb	M15	01/09/2020	08/09/2020	149.19 X 149.60 X 149.18	22318	8.554	289.8	13.0	
3	PCC For Kerb	M15	01/09/2020	08/09/2020	151.84 X 150.71 X 150.56	22883	8.292	285.1	12.5	

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2020-10-12-50

Date: 29/09/2020

Project Name : "Improvements to Roads Drains and Other Developmental Works in Ananthapura Attur Ward No 03 Under SWM Head in Chief Minister Nava Nagarothan Grants of Yelahanka Division Package 08"

Improvements to roads and drains at Ananthapura village limits

Agency : Sri A Channareddy, M/s ACR Projects, Engineers & Contractors, No.01, Byarappa Circle, Jambusavaridinne, J.P. Nagara, 8th Phase, Bangalore-83.

Customer's Reference : BBMP/EE/Ynk-D/W.O/01/2020-21

Date of Receipt : 03-09-20

Customer ID : PCC For Kerb

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 29/09/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC For Kerb	M15	01/09/2020	29/09/2020	151.01 X 151.49 X 151.08	22876	8.408	410.9	18.0	17.7
2	PCC For Kerb	M15	01/09/2020	29/09/2020	149.15 X 150.96 X 149.08	22516	8.844	400.1	17.8	
3	PCC For Kerb	M15	01/09/2020	29/09/2020	151.84 X 149.50 X 151.08	22700	8.868	392.0	17.3	

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2020-10-12-50 **Date: 29/09/2020**

Project Name : "Improvements to Roads Drains and Other Developmental Works in Ananthapura Attur Ward No 03 Under SWM Head in Chief Minister Nava Nagarothan Grants of Yelahanka Division Package 08"

Improvements to roads and drains at Ananthapura village limits

Agency : Sri A Channareddy, M/s ACR Projects, Engineers & Contractors, No.01, Byarappa Circle, Jambusavaridinne, J.P. Nagara, 8th Phase, Bangalore-83.

Customer's Reference : BBMP/EE/Ynk-D/W.O/01/2020-21

Date of Receipt : 03-09-20

Customer ID : PCC For Kerb

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 29/09/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC For Kerb	M15	01/09/2020	29/09/2020	150.02 X 151.95 X 150.20	22796	8.408	407.6	17.9	17.8
2	PCC For Kerb	M15	01/09/2020	29/09/2020	150.34 X 149.22 X 149.79	22433	8.844	398.6	17.8	
3	PCC For Kerb	M15	01/09/2020	29/09/2020	149.41 X 150.45 X 150.12	22479	8.868	400.7	17.8	

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2020-10-12-50 **Date: 04/07/2020**

Project Name : "Improvements to Roads Drains and Other Developmental Works in Ananthapura Attur Ward No 03 Under SWM Head in Chief Minister Nava Nagarothan Grants of Yelahanka Division Package 08"

Improvements to roads and drains at Ananthapura village limits

Agency : Sri A Channareddy, M/s ACR Projects, Engineers & Contractors, No.01, Byarappa Circle, Jambusavaridinne, J.P. Nagara, 8th Phase, Bangalore-83.

Customer's Reference : BBMP/EE/Ynk-D/W.O/01/2020-21

Date of Receipt : 08-06-20

Customer ID : Drain Bottom Slab Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 04/07/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	06/06/2020	04/07/2020	150.59 X 150.46 X 151.42	22658	8.425	532.6	23.5	23.1
2	Drain Bottom Slab Concrete	M20	06/06/2020	04/07/2020	149.94 X 151.11 X 151.16	22658	8.845	507.2	22.4	
3	Drain Bottom Slab Concrete	M20	06/06/2020	04/07/2020	151.13 X 149.53 X 149.87	22598	8.242	531.6	23.5	

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2020-10-12-50 **Date: 07/07/2020**

Project Name : "Improvements to Roads Drains and Other Developmental Works in Ananthapura Attur Ward No 03 Under SWM Head in Chief Minister Nava Nagarothan Grants of Yelahanka Division Package 08"

Improvements to roads and drains at Ananthapura village limits

Agency : Sri A Channareddy, M/s ACR Projects, Engineers & Contractors, No.01, Byarappa Circle, Jambusavaridinne, J.P. Nagara, 8th Phase, Bangalore-83.

Customer's Reference : BBMP/EE/Ynk-D/W.O/01/2020-21

Date of Receipt : 11-06-20

Customer ID : Drain Bottom Slab Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 07/07/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	09/06/2020	07/07/2020	150.31 X 149.84 X 151.72	22522	8.425	528.1	23.4	23.1
2	Drain Bottom Slab Concrete	M20	09/06/2020	07/07/2020	151.30 X 150.14 X 149.11	22716	8.845	506.5	22.3	
3	Drain Bottom Slab Concrete	M20	09/06/2020	07/07/2020	149.27 X 149.38 X 151.98	22298	8.242	525.9	23.6	

* The results obtained are satisfactory as per standard requirements.

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2020-10-12-50

Date: 19/06/2020

Project Name : "Improvements to Roads Drains and Other Developmental Works in Ananthapura Attur Ward No 03 Under SWM Head in Chief Minister Nava Nagarothan Grants of Yelahanka Division Package 08"

Improvements to roads and drains at Ananthapura village limits

Agency : Sri A Channareddy, M/s ACR Projects, Engineers & Contractors, No.01, Byarappa Circle, Jambusavaridinne, J.P. Nagara, 8th Phase, Bangalore-83.

Customer's Reference : BBMP/EE/Ynk-D/W.O/01/2020-21

Date of Receipt : 15-06-20

Customer ID : Drain Side Wall concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 19/06/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall concrete	M20	12/06/2020	19/06/2020	151.07 X 150.26 X 149.93	22700	8.140	416.4	18.3	18.4
2	Drain Side Wall concrete	M20	12/06/2020	19/06/2020	150.02 X 149.46 X 149.23	22422	8.970	419.1	18.7	
3	Drain Side Wall concrete	M20	12/06/2020	19/06/2020	149.20 X 150.51 X 151.38	22455	8.904	409.8	18.3	

* The results obtained are satisfactory as per standard requirements.

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Authorized Signatory
Quality Manager

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Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2020-10-12-50** **Date: 10-06-20**
Project Name	:	"Improvements to Roads Drains and Other Developmental Works in Ananthapura Attur Ward No 03 Under SWM Head in Chief Minister Nava Nagarothan Grants of Yelahanka Division Package 08" **Improvements to roads and drains at Ananthapura Mahalakshmi layout Limits**
Agency	:	Sri A Channareddy, M/s ACR Projects, Engineers & Contractors, No.01, Byarappa Circle, Jambusavaridinne, J.P. Nagara, 8th Phase, Bangalore-83.
Customer's Reference	:	BBMP/EE/Ynk-D/W.O/01/2020-21
Date of Receipt	:	12-05-20
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	13-05-20
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	29.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.5N/mm^2	Not less than 37 N/mm^2
3	28 Days	58.5N/mm^2	Not less than 53 N/mm^2

* The results obtained are satisfactory as per standard requirements.

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ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ,
ಜಿ.ಬಿ.ಎ. ಬೆಂಗಳೂರು-106

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2020-10-12-50

Date: 27/06/2020

Project Name : "Improvements to Roads Drains and Other Developmental Works in Ananthapura Attur Ward No 03 Under SWM Head in Chief Minister Nava Nagarothan Grants of Yelahanka Division Package 08"

Improvements to roads and drains at Ananthapura Mahalakshmi layout Limits

Agency : Sri A Channareddy, M/s ACR Projects, Engineers & Contractors, No.01, Byarappa Circle, Jambusavaridinne, J.P. Nagara, 8th Phase, Bangalore-83.

Customer's Reference : BBMP/EE/Ynk-D/W.O/01/2020-21

Date of Receipt : 22-06-20

Customer ID : Drain Side Wall concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 27/06/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall concrete	M20	20/06/2020	27/06/2020	149.64 X 151.99 X 150.07	22743	8.140	409.8	18.0	18.5
2	Drain Side Wall concrete	M20	20/06/2020	27/06/2020	151.93 X 150.52 X 150.03	22867	8.970	431.4	18.9	
3	Drain Side Wall concrete	M20	20/06/2020	27/06/2020	151.32 X 151.62 X 150.16	22943	8.904	427.7	18.6	

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2020-10-12-50

Date: 20/07/2020

Project Name : "Improvements to Roads Drains and Other Developmental Works in Ananthapura Attur Ward No 03 Under SWM Head in Chief Minister Nava Nagarothan Grants of Yelahanka Division Package 08"

Improvements to roads and drains at Ananthapura Mahalakshmi layout Limits

Agency : Sri A Channareddy, M/s ACR Projects, Engineers & Contractors, No.01, Byarappa Circle, Jambusavaridinne, J.P. Nagara, 8th Phase, Bangalore-83.

Customer's Reference : BBMP/EE/Ynk-D/W.O/01/2020-21

Date of Receipt : 24-06-20

Customer ID : Drain Side Wall concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 20/07/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall concrete	M20	22/06/2020	20/07/2020	151.60 X 151.38 X 149.01	22950	8.221	541.2	23.6	23.3
2	Drain Side Wall concrete	M20	22/06/2020	20/07/2020	149.30 X 150.11 X 149.42	22412	8.511	501.5	22.4	
3	Drain Side Wall concrete	M20	22/06/2020	20/07/2020	150.89 X 150.12 X 150.13	22650	8.901	542.1	23.9	

* The results obtained are satisfactory as per standard requirements.

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Certificate No.: TC-5548

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2020-10-12-50

Date: 30/06/2020

Project Name : "Improvements to Roads Drains and Other Developmental Works in Ananthapura Attur Ward No 03 Under SWM Head in Chief Minister Nava Nagarothan Grants of Yelahanka Division Package 08"

Improvements to roads and drains at Ananthapura Mahalakshmi layout Limits

Agency : Sri A Channareddy, M/s ACR Projects, Engineers & Contractors, No.01, Byarappa Circle, Jambusavaridinne, J.P. Nagara, 8th Phase, Bangalore-83.

Customer's Reference : BBMP/EE/Ynk-D/W.O/01/2020-21

Date of Receipt : 25-06-20

Customer ID : Drain Side Wall concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 30/06/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall concrete	M20	23/06/2020	30/06/2020	151.34 X 150.85 X 149.30	22830	8.140	426.1	18.7	18.4
2	Drain Side Wall concrete	M20	23/06/2020	30/06/2020	151.76 X 149.29 X 150.08	22656	8.970	418.7	18.5	
3	Drain Side Wall concrete	M20	23/06/2020	30/06/2020	151.42 X 151.41 X 150.63	22927	8.904	414.5	18.1	

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 24/07/2020

Lab ID	:	CP-2020-10-12-50
Project Name	:	"Improvements to Roads Drains and Other Developmental Works in Ananthapura Attur Ward No 03 Under SWM Head in Chief Minister Nava Nagarothan Grants of Yelahanka Division Package 08" **Improvements to roads and drains at Ananthapura Mahalakshmi layout Limits**
Agency	:	Sri A Channareddy, M/s ACR Projects, Engineers & Contractors, No.01, Byarappa Circle, Jambusavaridinne, J.P. Nagara, 8th Phase, Bangalore-83.
Customer's Reference	:	BBMP/EE/Ynk-D/W.O/01/2020-21
Date of Receipt	:	29-06-20
Customer ID	:	Culvert Bottom Slab Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	24/07/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Bottom Slab Concrete	M20	26/06/2020	24/07/2020	151.37 X 150.31 X 149.27	22753	8.221	541.1	23.8	23.4
2	Culvert Bottom Slab Concrete	M20	26/06/2020	24/07/2020	151.59 X 150.88 X 149.74	22872	8.511	514.9	22.5	
3	Culvert Bottom Slab Concrete	M20	26/06/2020	24/07/2020	151.54 X 150.81 X 150.47	22854	8.901	544.5	23.8	

* The results obtained are satisfactory as per standard requirements.

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Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : CP-2020-10-12-50 **Date: 15-05-20**

Project Name : "Improvements to Roads Drains and Other Developmental Works in Ananthapura Attur Ward No 03 Under SWM Head in Chief Minister Nava Nagarothan Grants of Yelahanka Division Package 08"

Improvements to Roads and Drains at Ananthapura village Nisarga layout Limits

Agency : Sri A Channareddy, M/s ACR Projects, Engineers & Contractors, No.01, Byarappa Circle, Jambusavaridinne, J.P. Nagara, 8th Phase, Bangalore-83.

Customer's Reference : BBMP/EE/Ynk-D/W.O/01/2020-21

Date of Receipt : 12-05-20

Sample Type : Birla Super 53grade

Reference to BIS codes : IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification ,
IS 4031 (Part 1,2 3,4,5, 6,11):1988
IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4
IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5
IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6
IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5
IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5
IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6

Date of test : 13-05-20

Environmental Conditions during test : Temperature: 26°C
Humidity: 72%

SLNo.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.86	–
2	Finess by Air permeablity method (m^2/kg,Min)	348.7	225m^2/kg, Min
3	Density (gm/cc)	3.14	–
4	Standard Consistency (%)	28.5%	Not specified
5	Initial Setting time	135 minutes	Not less than 30 minutes
6	Final Setting time	245 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

* The results obtained are satisfactory as per standard requirements.

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Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2020-10-12-50** **Date: 15-05-20**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	11.9	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.3	
3	Specific Gravity	2.64	–
4	Bulk Density(Loose) (Kg/l)	1.43	–
5	Bulk Density(Compacted) (Kg/l)	1.47	–
6	Water Absorption(%)	0.25	–

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2020-10-12-50**

Date: 14-05-20

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.5	–
2	Specific Gravity	2.59	–
3	Material finer than 75 micron(%)	6.9	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

* The results obtained are satisfactory as per standard requirements.

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Certificate No.: TC-5548

TEST REPORT OF PRECAST COVER SLAB

Format No: CP/TF/01

Lab ID : CP-2020-10-12-50

Project Name : "Improvements to Roads Drains and Other Developmental Works in Ananthapura Attur Ward No 03 Under SWM Head in Chief Minister Nava Nagarothan Grants of Yelahanka Division Package 08"

Date: 29-08-20

Improvements to Roads and Drains at Ananthapura village Nisarga layout Limits

Agency : Sri A Channareddy, M/s ACR Projects, Engineers & Contractors, No.01, Byarappa Circle, Jambusavaridinne, J.P. Nagara, 8th Phase, Bangalore-83.

Customer's Reference : BBMP/EE/Ynk-D/W.O/01/2020-21

Date of Receipt : 25-08-20

Sample Type /Size : Precast Cover Slab (250mm)

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete

Date of test : 25/08/2020

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	200.51	250.48	3.116	31570	230.9	7.3	6.8	8.5
2	Cover Slab-2	200.49	250.52	3.122	31564	232.3	7.4	6.8	8.6
3	Cover Slab-3	200.50	250.51	3.118	31567	231.5	7.3	6.8	8.5

* The results obtained are satisfactory as per standard requirements.

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Quality Manager

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Certificate No.: TC-5548

TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/TF/01

Lab ID : CP-2020-10-12-50

Date: 27/06/2020

Project Name : "Improvements to Roads Drains and Other Developmental Works in Ananthapura Attur Ward No 03 Under SWM Head in Chief Minister Nava Nagarothan Grants of Yelahanka Division Package 08"

Improvements to Roads and Drains at Ananthapura village Nisarga layout Limits

Agency : Sri A Channareddy, M/s ACR Projects, Engineers & Contractors, No.01, Byarappa Circle, Jambusavaridinne, J.P. Nagara, 8th Phase, Bangalore-83.

Customer's Reference : BBMP/EE/Ynk-D/W.O/01/2020-21

Date of Receipt : 22-06-20

Customer ID : Drain Bottom Slab Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 27/06/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	20/06/2020	27/06/2020	151.94 X 151.89 X 151.36	23078	8.906	415.9	18.0	18.1
2	Drain Bottom Slab Concrete	M20	20/06/2020	27/06/2020	151.00 X 150.57 X 151.96	22736	8.340	414.7	18.2	
3	Drain Bottom Slab Concrete	M20	20/06/2020	27/06/2020	151.58 X 149.06 X 149.58	22594	8.911	410.7	18.2	

* The results obtained are satisfactory as per standard requirements.

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2020-10-12-50

Date: 02/07/2020

Project Name : "Improvements to Roads Drains and Other Developmental Works in Ananthapura Attur Ward No 03 Under SWM Head in Chief Minister Nava Nagarothan Grants of Yelahanka Division Package 08"

Improvements to Roads and Drains at Ananthapura village Nisarga layout Limits

Agency : Sri A Channareddy, M/s ACR Projects, Engineers & Contractors, No.01, Byarappa Circle, Jambusavaridinne, J.P. Nagara, 8th Phase, Bangalore-83.

Customer's Reference : BBMP/EE/Ynk-D/W.O/01/2020-21

Date of Receipt : 27-06-20

Customer ID : Drain Side wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 02/07/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side wall Concrete	M20	25/06/2020	02/07/2020	149.35 X 149.37 X 151.89	22309	8.906	408.8	18.3	18.6
2	Drain Side wall Concrete	M20	25/06/2020	02/07/2020	149.90 X 150.21 X 150.83	22515	8.340	423.2	18.8	
3	Drain Side wall Concrete	M20	25/06/2020	02/07/2020	150.70 X 150.94 X 150.49	22747	8.911	427.7	18.8	

* The results obtained are satisfactory as per standard requirements.

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Certificate No.: TC-5548

TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/TF/01

Lab ID : CP-2020-10-12-50

Date: 24/07/2020

Project Name : "Improvements to Roads Drains and Other Developmental Works in Ananthapura Attur Ward No 03 Under SWM Head in Chief Minister Nava Nagarothan Grants of Yelahanka Division Package 08"

Improvements to Roads and Drains at Ananthapura village Nisarga layout Limits

Agency : Sri A Channareddy, M/s ACR Projects, Engineers & Contractors, No.01, Byarappa Circle, Jambusavaridinne, J.P. Nagara, 8th Phase, Bangalore-83.

Customer's Reference : BBMP/EE/Ynk-D/W.O/01/2020-21

Date of Receipt : 29-06-20

Customer ID : Drain Side wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 24/07/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side wall Concrete	M20	26/06/2020	24/07/2020	149.92 X 150.67 X 149.01	22589	8.127	541.5	24.0	23.0
2	Drain Side wall Concrete	M20	26/06/2020	24/07/2020	149.43 X 150.31 X 151.31	22460	8.125	495.1	22.0	
3	Drain Side wall Concrete	M20	26/06/2020	24/07/2020	149.42 X 150.25 X 149.95	22451	8.142	518.8	23.1	

* The results obtained are satisfactory as per standard requirements.

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2020-10-12-50

Date: 06/07/2020

Project Name : "Improvements to Roads Drains and Other Developmental Works in Ananthapura Attur Ward No 03 Under SWM Head in Chief Minister Nava Nagarothan Grants of Yelahanka Division Package 08"

Improvements to Roads and Drains at Ananthapura village Nisarga layout Limits

Agency : Sri A Channareddy, M/s ACR Projects, Engineers & Contractors, No.01, Byarappa Circle, Jambusavaridinne, J.P. Nagara, 8th Phase, Bangalore-83

Customer's Reference : BBMP/EE/Ynk-D/W.O/01/2020-21

Date of Receipt : 01-07-20

Customer ID : Drain Side wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 06/07/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side wall Concrete	M20	29/06/2020	06/07/2020	151.97 X 149.36 X 149.22	22699	8.906	429.8	18.9	18.8
2	Drain Side wall Concrete	M20	29/06/2020	06/07/2020	149.38 X 149.47 X 150.12	22328	8.340	421.0	18.9	
3	Drain Side wall Concrete	M20	29/06/2020	06/07/2020	150.81 X 150.44 X 150.96	22689	8.911	422.1	18.6	

* The results obtained are satisfactory as per standard requirements.

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	CP-2020-10-12-50 **Date: 15-05-20**
Project Name	:	"Improvements to Roads Drains and Other Developmental Works in Ananthapura Attur Ward No 03 Under SWM Head in Chief Minister Nava Nagarothan Grants of Yelahanka Division Package 08" **Improvements to roads and drains at Thirumalanagara layout.**
Agency	:	Sri A Channareddy, M/s ACR Projects, Engineers & Contractors, No.01, Byarappa Circle, Jambusavaridinne, J.P. Nagara, 8th Phase, Bangalore-83.
Customer's Reference	:	BBMP/EE/Ynk-D/W.O/01/2020-21
Date of Receipt	:	12-05-20
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988
		IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4
		IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5
		IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6
		IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5
		IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5
		IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	13-05-20
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

SLNo.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.05	-
2	Finess by Air permeablity method (m^2/kg,Min)	298.6	225m^2/kg, Min
3	Density (gm/cc)	3.13	-
4	Standard Consistency (%)	28.5%	Not specified
5	Initial Setting time	135 minutes	Not less than 30 minutes
6	Final Setting time	255 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

* The results obtained are satisfactory as per standard requirements.

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TEST RESULTS OF STEEL

Lab ID : CP-2020-10-12-50

Date: 13-05-20

Project Name : "Improvements to Roads Drains and Other Developmental Works in Ananthapura Attur Ward No 03 Under SWM Head in Chief Minister Nava Nagarothan Grants of Yelahanka Division Package 08"

Improvements to roads and drains at Thirumalanagara layout.

Agency : Sri A Channareddy, M/s ACR Projects, Engineers & Contractors, No.01, Byarappa Circle, Jambusavaridinne, J.P. Nagara, 8th Phase, Bangalore-83.

Customer's Reference : BBMP/EE/Ynk-D/W.O/01/2020-21

Date of Receipt : 12-05-20

Sample Type : Sunvik

Reference to BIS codes : IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.

Date of test: : 12-05-20

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	10	0.616	528	672	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	12	0.888	544	668	20.0%	Satisfactory	Satisfactory

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/TF/01

Lab ID : CP-2020-10-12-50

Date: 03/10/2020

Project Name : "Improvements to Roads Drains and Other Developmental Works in Ananthapura Attur Ward No 03 Under SWM Head in Chief Minister Nava Nagarothan Grants of Yelahanka Division Package 08"

Improvements to roads and drains at Thirumalanagara layout.

Agency : Sri A Channareddy, M/s ACR Projects, Engineers & Contractors, No.01, Byarappa Circle, Jambusavaridinne, J P. Nagara, 8th Phase, Bangalore-83.

Customer's Reference : BBMP/EE/Ynk-D/W.O/01/2020-21

Date of Receipt : 07-09-20

Customer ID : PCC For Kerb

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 03/10/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC For Kerb	M20	05/09/2020	03/10/2020	149.00 X 151.36 X 149.05	22554	8.723	400.1	17.7	17.8
2	PCC For Kerb	M20	05/09/2020	03/10/2020	151.36 X 150.67 X 152.00	22804	8.966	401.8	17.6	
3	PCC For Kerb	M20	05/09/2020	03/10/2020	151.84 X 151.22 X 149.69	22962	8.551	412.5	18.0	

* The results obtained are satisfactory as per standard requirements.

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2020-10-12-50

Date: 21/07/2020

Project Name : "Improvements to Roads Drains and Other Developmental Works in Ananthapura Attur Ward No 03 Under SWM Head in Chief Minister Nava Nagarothan Grants of Yelahanka Division Package 08"

Improvements to roads and drains at Thirumalanagara layout.

Agency : Sri A Channareddy, M/s ACR Projects, Engineers & Contractors, No.01, Byarappa Circle, Jambusavaridinne, J.P. Nagara, 8th Phase, Bangalore-83.

Customer's Reference : BBMP/EE/Ynk-D/W.O/01/2020-21

Date of Receipt : 25-06-20

Customer ID : Drain Bottom Slab Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 21/07/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	23/06/2020	21/07/2020	151.64 X 150.64 X 149.73	22844	8.425	544.2	23.8	23.1
2	Drain Bottom Slab Concrete	M20	23/06/2020	21/07/2020	150.85 X 149.92 X 149.92	22616	8.845	505.7	22.4	
3	Drain Bottom Slab Concrete	M20	23/06/2020	21/07/2020	151.86 X 151.35 X 149.54	22984	8.242	529.1	23.0	

* The results obtained are satisfactory as per standard requirements.

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2020-10-12-50 **Date: 02/07/2020**

Project Name : "Improvements to Roads Drains and Other Developmental Works in Ananthapura Attur Ward No 03 Under SWM Head in Chief Minister Nava Nagarothan Grants of Yelahanka Division Package 08"

Improvements to roads and drains at Thirumalanagara layout.

Agency : Sri A Channareddy, M/s ACR Projects, Engineers & Contractors, No.01, Byarappa Circle, Jambusavaridinne, J.P. Nagara, 8th Phase, Bangalore-83

Customer's Reference : BBMP/EE/Ynk-D/W.O/01/2020-21

Date of Receipt : 27-06-20

Customer ID : Drain Side Wall concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 02/07/2020

SL No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall concrete	M20	25/06/2020	02/07/2020	151.64 X 151.44 X 151.30	22965	8.140	417.9	18.2	18.4
2	Drain Side Wall concrete	M20	25/06/2020	02/07/2020	149.04 X 150.95 X 150.45	22497	8.970	419.9	18.7	
3	Drain Side Wall concrete	M20	25/06/2020	02/07/2020	151.14 X 150.25 X 151.87	22709	8.904	417.0	18.4	

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2020-10-12-50 **Date: 07/07/2020**

Project Name : "Improvements to Roads Drains and Other Developmental Works in Ananthapura Attur Ward No 03 Under SWM Head in Chief Minister Nava Nagarothan Grants of Yelahanka Division Package 08"

Improvements to roads and drains at Thirumalanagara layout.

Agency : Sri A Channareddy, M/s ACR Projects, Engineers & Contractors, No.01, Byarappa Circle, Jambusavaridinne, J.P. Nagara, 8th Phase, Bangalore-83.

Customer's Reference : BBMP/EE/Ynk-D/W.O/01/2020-21

Date of Receipt : 02-07-20

Customer ID : Culvert Bottom Slab Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS. 516 - 1959 Methods of Tests for Strength of Concrete Cl 5

Date of test : 07/07/2020

SL No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Bottom Slab Concrete	M20	30/06/2020	07/07/2020	150.54 X 151.80 X 150.04	22852	8.140	432.4	18.9	18.7
2	Culvert Bottom Slab Concrete	M20	30/06/2020	07/07/2020	150.84 X 151.81 X 150.91	22899	8.970	423.0	18.5	
3	Culvert Bottom Slab Concrete	M20	30/06/2020	07/07/2020	151.53 X 150.23 X 150.67	22764	8.904	428.6	18.8	

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2020-10-12-50 **Date: 11/07/2020**

Project Name : "Improvements to Roads Drains and Other Developmental Works in Ananthapura Attur Ward No 03 Under SWM Head in Chief Minister Nava Nagarothan Grants of Yelahanka Division Package 08"

Improvements to roads and drains at Thirumalanagara layout.

Agency : Sri A Channareddy, M/s ACR Projects, Engineers & Contractors, No.01, Byarappa Circle, Jambusavaridinne, J.P. Nagara, 8th Phase, Bangalore-83.

Customer's Reference : BBMP/EE/Ynk-D/W O/01/2020-21

Date of Receipt : 06-07-20

Customer ID : Culvert Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl 5

Date of test : 11/07/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Side Wall Concrete	M20	04/07/2020	11/07/2020	150.29 X 149.59 X 150.54	22482	8.140	425.5	18.9	18.5
2	Culvert Side Wall Concrete	M20	04/07/2020	11/07/2020	149.02 X 149.34 X 149.17	22255	8.970	400.8	18.0	
3	Culvert Side Wall Concrete	M20	04/07/2020	11/07/2020	151.20 X 151.01 X 151.14	22834	8.904	421.2	18.4	

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF AGGEGRATE STRIPPING VALUE OF ROAD AGGRGATE (IS:6241)

Lab ID : CP-RW-2018- Date: 09-10-20

Project Name : "Improvements to Roads Drains and Other Developmental Works in Ananthapura Attur Ward No 03 Under SWM Head in Chief Minister Nava Nagarothan Grants of Yelahanka Division Package 08"

Improvements to roads and drains at Thirumalanagara layout.

Agency : Sri A Channareddy, M/s ACR Projects, Engineers & Contractors, No.01, Byarappa Circle, Jambusavaridinne, J.P. Nagara, 8th Phase, Bangalore-83.

Customer Reference : BBMP/EE/Ynk-D/W.O/01/2020-21

Date of Receipt : 06-10-20

Type of Mix : DBM(Dense Bitumnous Macadam)

Date of test : 06-10-20

Type of Binder : 60/70

% of Binder Used : 5.0%

Weight of Aggregate : 200.0 gm

Weight of Binder : 10.0 gm

Temperature of water bath : 40°C

No of test	Retained Stripping Percentage	Stripping Percentage	Average Retained Stripping Percentage	Secified limits as per MORTH specification table 500-S
1	98.0	2.0	98.2	Minimum Retained Coating 95%
2	98.5	1.5		
3	98.0	2.0		

* The results obtained are satisfactory as per standard requirements.

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TESTS RESULTS ON STABILITY OF MIX

Lab ID : CP-RW-2020-10-12-50 **Date: 13-10-20**

Project Name : "Improvements to Roads Drains and Other Developmental Works in Ananthapura Attur Ward No 03 Under SWM Head in Chief Minister Nava Nagarothan Grants of Yelahanka Division Package 08"

Improvements to roads and drains at Thirumalanagara layout.

Agency : Sri A Channareddy, M/s ACR Projects, Engineers & Contractors, No.01, Byarappa Circle, Jambusavaridinne, J.P. Nagara, 8th Phase, Bangalore-83.

Customer Reference : BBMP/EE/Ynk-D/W.O/01/2020-21

Date of Receipt : 10-10-20

Type of Mix : BC (Bituminous Concrete)

Date of test : 10-10-20

The results of the tests conducted on the Bituminous Concrete mix sample are as follow

SLNo	Particulars of observations	TEST 1	TEST 2	Secified limits as per MORTH specification table 500-11
1	Marshal Stability at 60°C, KN	11.14	11.13	10KN(min)
2	Marshal flow at 60°C, mm	3.52	3.51	2-4
3	Percent air Voids	4.82	4.83	3-5
4	Percent Voids in mineral Aggregate(VMA %)	14.28	14.26	13-15
5	Percent Voids filled with Bitumen(VFB %)	71.87	71.63	65-75
6	Density, g/cc	2.25	2.26	–

• The results obtained are satisfactory as per standard requirements.

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